

*\* Edit authorized by L. Farnsworth*

**RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/781,055A  
Source: IFW/6  
Date Processed by STIC: 3/7/06

***ENTERED***

*Edit authorized by examiner*

**CRF Errors Edited by the STIC Systems Branch**

Serial Number: 10/781,055A

CRF Edit Date: 3/24/06  
Edited by: Ac

\_\_\_ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

\_\_\_ Corrected the SEQ ID NO. Sequence numbers edited were:

\_\_\_\_\_

\_\_\_ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

\_\_\_\_\_

\_\_\_ Deleted: \_\_\_ invalid beginning/end-of-file text ; \_\_\_ page numbers

\_\_\_ Inserted mandatory headings/numeric identifiers, specifically:

\_\_\_\_\_

\_\_\_ Moved responses to same line as heading/numeric identifier, specifically:

\_\_\_\_\_

J. Other:  
sequence 38 - corrected <2117 response to "21"  
and changed cumulative base total to "21"



IFW16

## RAW SEQUENCE LISTING

DATE: 03/24/2006

PATENT APPLICATION: US/10/781,055A

TIME: 12:30:07

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\03242006\J781055A.raw

```

3 <110> APPLICANT: JOHNSTON, STEPHEN
4   QU, BAO-XI
6 <120> TITLE OF INVENTION: RATIONALLY DESIGNED AND CHEMICALLY SYNTHESIZED
7   PROMOTER FOR GENETIC VACCINE AND GENE THERAPY
9 <130> FILE REFERENCE: UTSD:788US
11 <140> CURRENT APPLICATION NUMBER: 10/781,055A
12 <141> CURRENT FILING DATE: 2004-02-18
14 <150> PRIOR APPLICATION NUMBER: 60/448,166
15 <151> PRIOR FILING DATE: 2003-02-18
17 <160> NUMBER OF SEQ ID NOS: 38
19 <170> SOFTWARE: PatentIn Ver. 2.1
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 51
23 <212> TYPE: DNA
24 <213> ORGANISM: Artificial Sequence
26 <220> FEATURE:
27 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
28   Primer
30 <400> SEQUENCE: 1
31 cggtagcatga tggctctcgat gcaatatcac gtgaagggtca aaaatagggtc a          51
34 <210> SEQ ID NO: 2
35 <211> LENGTH: 18
36 <212> TYPE: DNA
37 <213> ORGANISM: Artificial Sequence
39 <220> FEATURE:
40 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
41   Primer
43 <400> SEQUENCE: 2
44 aggtcacctc tctcggt          18
47 <210> SEQ ID NO: 3
48 <211> LENGTH: 60
49 <212> TYPE: DNA
50 <213> ORGANISM: Artificial Sequence
52 <220> FEATURE:
53 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
54   Primer
56 <400> SEQUENCE: 3
57 atcaaataag agtgtaggga cgggagaggg ggaaaacaga acagaacagt gctgacgtca 60
60 <210> SEQ ID NO: 4
61 <211> LENGTH: 11
62 <212> TYPE: DNA
63 <213> ORGANISM: Artificial Sequence
65 <220> FEATURE:

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## RAW SEQUENCE LISTING

DATE: 03/24/2006

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66 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
67     Primer
69 <400> SEQUENCE: 4
70 gcaggcagtt g                                     11
73 <210> SEQ ID NO: 5
74 <211> LENGTH: 41
75 <212> TYPE: DNA
76 <213> ORGANISM: Artificial Sequence
78 <220> FEATURE:
79 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
80     Primer
82 <400> SEQUENCE: 5
83 ccctttgaaa acgttaacgt taacgttcag ctgcagctgc a       41
86 <210> SEQ ID NO: 6
87 <211> LENGTH: 9
88 <212> TYPE: DNA
89 <213> ORGANISM: Artificial Sequence
91 <220> FEATURE:
92 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
93     Primer
95 <400> SEQUENCE: 6
96 gctgattaa                                         9
99 <210> SEQ ID NO: 7
100 <211> LENGTH: 13
101 <212> TYPE: DNA
102 <213> ORGANISM: Artificial Sequence
104 <220> FEATURE:
105 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
106     Primer
108 <400> SEQUENCE: 7
109 taattacagc caa                                   13
112 <210> SEQ ID NO: 8
113 <211> LENGTH: 36
114 <212> TYPE: DNA
115 <213> ORGANISM: Artificial Sequence
117 <220> FEATURE:
118 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
119     Primer
121 <400> SEQUENCE: 8
122 aggcgcacaaa ggcaacgtta tatgcaaata tgcaaa         36
125 <210> SEQ ID NO: 9
126 <211> LENGTH: 22
127 <212> TYPE: DNA
128 <213> ORGANISM: Artificial Sequence
130 <220> FEATURE:
131 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
132     Primer
134 <400> SEQUENCE: 9
135 tgagaacagg ggggggggggc gg                         22

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## RAW SEQUENCE LISTING

DATE: 03/24/2006

PATENT APPLICATION: US/10/781,055A

TIME: 12:30:07

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\03242006\J781055A.raw

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138 <210> SEQ ID NO: 10
139 <211> LENGTH: 37
140 <212> TYPE: DNA
141 <213> ORGANISM: Artificial Sequence
143 <220> FEATURE:
144 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
145     Primer
147 <400> SEQUENCE: 10
148 acatcggttc aacgtttctg gtttcaatct ctcttct      37
151 <210> SEQ ID NO: 11
152 <211> LENGTH: 28
153 <212> TYPE: DNA
154 <213> ORGANISM: Artificial Sequence
156 <220> FEATURE:
157 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
158     Primer
160 <400> SEQUENCE: 11
161 attaataatt accgttggcc attagcca      28
164 <210> SEQ ID NO: 12
165 <211> LENGTH: 8
166 <212> TYPE: DNA
167 <213> ORGANISM: Artificial Sequence
169 <220> FEATURE:
170 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
171     Primer
173 <400> SEQUENCE: 12
174 tatccaat      8
177 <210> SEQ ID NO: 13
178 <211> LENGTH: 8
179 <212> TYPE: DNA
180 <213> ORGANISM: Artificial Sequence
182 <220> FEATURE:
183 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
184     Primer
186 <400> SEQUENCE: 13
187 ggggcggg      8
190 <210> SEQ ID NO: 14
191 <211> LENGTH: 11
192 <212> TYPE: DNA
193 <213> ORGANISM: Artificial Sequence
195 <220> FEATURE:
196 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
197     Primer
199 <400> SEQUENCE: 14
200 atttgacgtc a      11
203 <210> SEQ ID NO: 15
204 <211> LENGTH: 8
205 <212> TYPE: DNA
206 <213> ORGANISM: Artificial Sequence

```

## RAW SEQUENCE LISTING

DATE: 03/24/2006

PATENT APPLICATION: US/10/781,055A

TIME: 12:30:07

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\03242006\J781055A.raw

```

208 <220> FEATURE:
209 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
210     Primer
212 <400> SEQUENCE: 15
213 ataatgac                                     8
216 <210> SEQ ID NO: 16
217 <211> LENGTH: 6
218 <212> TYPE: DNA
219 <213> ORGANISM: Artificial Sequence
221 <220> FEATURE:
222 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
223     Primer
225 <400> SEQUENCE: 16
226 gccaat                                     6
229 <210> SEQ ID NO: 17
230 <211> LENGTH: 11
231 <212> TYPE: DNA
232 <213> ORGANISM: Artificial Sequence
234 <220> FEATURE:
235 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
236     Primer
238 <400> SEQUENCE: 17
239 agggactttc c                               11
242 <210> SEQ ID NO: 18
243 <211> LENGTH: 7
244 <212> TYPE: DNA
245 <213> ORGANISM: Artificial Sequence
247 <220> FEATURE:
248 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
249     Primer
251 <400> SEQUENCE: 18
252 gactcac                                    7
255 <210> SEQ ID NO: 19
256 <211> LENGTH: 9
257 <212> TYPE: DNA
258 <213> ORGANISM: Artificial Sequence
260 <220> FEATURE:
261 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
262     Primer
264 <400> SEQUENCE: 19
265 ggggatttc                                 9
268 <210> SEQ ID NO: 20
269 <211> LENGTH: 19
270 <212> TYPE: DNA
271 <213> ORGANISM: Artificial Sequence
273 <220> FEATURE:
274 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
275     Primer
277 <400> SEQUENCE: 20

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## RAW SEQUENCE LISTING

DATE: 03/24/2006

PATENT APPLICATION: US/10/781,055A

TIME: 12:30:08

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\03242006\J781055A.raw

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278 caacgttttg gttgacgaa                                19
281 <210> SEQ ID NO: 21
282 <211> LENGTH: 8
283 <212> TYPE: DNA
284 <213> ORGANISM: Artificial Sequence
286 <220> FEATURE:
287 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
288     Primer
290 <400> SEQUENCE: 21
291 atgggcgg                                              8
294 <210> SEQ ID NO: 22
295 <211> LENGTH: 13
296 <212> TYPE: DNA
297 <213> ORGANISM: Artificial Sequence
299 <220> FEATURE:
300 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
301     Primer
303 <400> SEQUENCE: 22
304 tgtaaatgac ata                                        13
307 <210> SEQ ID NO: 23
308 <211> LENGTH: 14
309 <212> TYPE: DNA
310 <213> ORGANISM: Artificial Sequence
312 <220> FEATURE:
313 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
314     Primer
316 <400> SEQUENCE: 23
317 ggaaaactga ctca                                        14
320 <210> SEQ ID NO: 24
321 <211> LENGTH: 15
322 <212> TYPE: DNA
323 <213> ORGANISM: Artificial Sequence
325 <220> FEATURE:
326 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
327     Primer
329 <400> SEQUENCE: 24
330 caaagggaga agtga                                        15
333 <210> SEQ ID NO: 25
334 <211> LENGTH: 14
335 <212> TYPE: DNA
336 <213> ORGANISM: Artificial Sequence
338 <220> FEATURE:
339 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
340     Primer
342 <400> SEQUENCE: 25
343 aagtgggact ttcc                                        14
346 <210> SEQ ID NO: 26
347 <211> LENGTH: 9
348 <212> TYPE: DNA

```

VERIFICATION SUMMARY

DATE: 03/24/2006

PATENT APPLICATION: US/10/781,055A

TIME: 12:30:08

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\03242006\J781055A.raw



**Raw Sequence Listing before editing  
(for reference only)**



IFW16

## RAW SEQUENCE LISTING

DATE: 03/24/2006

PATENT APPLICATION: US/10/781,055A

TIME: 12:28:46

Input Set : E:\UTSD788US.txt

Output Set: N:\CRF4\03242006\J781055A.raw

3 <110> APPLICANT: JOHNSTON, STEPHEN  
 4 QU, BA0-XI  
 6 <120> TITLE OF INVENTION: RATIONALLY DESIGNED AND CHEMICALLY SYNTHESIZED  
 7 PROMOTER FOR GENETIC VACCINE AND GENE THERAPY  
 9 <130> FILE REFERENCE: UTSD:788US  
 11 <140> CURRENT APPLICATION NUMBER: 10/781,055A  
 12 <141> CURRENT FILING DATE: 2004-02-18  
 14 <150> PRIOR APPLICATION NUMBER: 60/448,166  
 15 <151> PRIOR FILING DATE: 2003-02-18  
 17 <160> NUMBER OF SEQ ID NOS: 38  
 19 <170> SOFTWARE: PatentIn Ver. 2.1

## ERRORED SEQUENCES

525 <210> SEQ ID NO: 38  
 526 <211> LENGTH: (11) 21 shown below  
 527 <212> TYPE: DNA  
 528 <213> ORGANISM: Artificial Sequence  
 530 <220> FEATURE:  
 531 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 532 Primer  
 534 <400> SEQUENCE: 38  
 E--> 535 tatataatat ataatatata a

Does Not Comply  
Corrected Diskette Needed

(11) 21

VERIFICATION SUMMARY

DATE: 03/24/2006

PATENT APPLICATION: US/10/781,055A

TIME: 12:28:47

Input Set : E:\UTSD788US.txt

Output Set: N:\CRF4\03242006\J781055A.raw

L:535 M:254 E: No. of Bases conflict, LENGTH:Input:11 Counted:21 SEQ:38

L:535 M:252 E: No. of Seq. differs, <211> LENGTH:Input:11 Found:21 SEQ:38